

**Supplementary Table 1. Method Detection Limits (MDL) by Analyte
in parts per billion**

Compound	Model 1 ^a		Model 2 ^b
	1g tissue water stds ^c	1g tissue tuna stds ^d	10 g tissue water stds
	MDL	MDL	MDL
dichlorodifluoromethane	5.1	6.0	0.9
chloromethane	5.1	4.5	0.2
vinyl chloride	4.0	5.2	0.3
bromomethane	6.8	7.8	0.9
chloroethane	4.8	5.1	0.5
trichlorofluoromethane	4.5	4.7	1.2
ether	17.3	18.1	1.1
acetone	66.7	59.6	0.1
1,1-dichloroethene	8.3	7.4	0.3
iodomethane	9.3	12.5	
allyl chloride	14.1	3.4	0.9
methylene chloride	1.6	1.4	0.1
acrylonitrile	21.0	14.7	0.9
<i>trans</i> -1,2-dichloroethene	2.4	2.3	0.2
1,1-dichloroethane	5.6	4.3	0.2
methacrylonitrile	7.5	7.8	0.9
2-butanone	8.9	5.6	0.1
propionitrile	3.2	2.8	0.1
2,2-dichloropropane	2.5	2.4	0.5
<i>cis</i> -1,2-dichloroethene	1.5	1.5	0.1
chloroform	1.9	1.7	0.2
bromochloromethane	1.2	1.1	0.1
1,1,1-trichloroethane	2.0	2.0	0.8
1,1-dichloropropene	2.6	2.9	0.2
carbon tetrachloride	2.9	4.5	0.9
1,2-dichloroethane	1.1	0.9	0.2
benzene	1.4	1.2	0.4
trichloroethene	1.7	1.9	0.4
1,2-dichloropropane	0.8	0.7	0.1
methyl methacrylate	1.5	1.5	0.3
bromodichloromethane	3.0	3.8	0.8
1,4-dioxane	2.6	2.2	0.1
dibromomethane	0.9	1.0	0.1

4-methyl-2-pentanone	2.9	2.1	0.1
trans-1,3-dichloropropene	1.1	1.7	0.1
toluene	1.7	1.0	0.1
pyridine	6.4	5.8	0.1
<i>cis</i> -1,3-dichloropropene	1.1	1.6	0.2
ethyl methacrylate	0.9	0.8	1.4
<i>n</i> -nitrosodimethylamine	208.0	99.8	40.6
2-hexanone	1.2	0.7	0.1
1,1,2-trichloroethane	0.9	1.0	0.1
tetrachloroethene	1.9	2.2	0.2
1,3-dichloropropane	0.7	0.7	0.1
dibromochloromethane	5.7	8.3	1.5
2-picoline	6.7	7.0	0.2
1,2-dibromoethane	0.8	0.7	0.1
chlorobenzene	0.7	0.6	0.1
1,1,1,2-tetrachloroethane	1.2	1.0	0.3
ethylbenzene	1.2	0.6	0.1
<i>n</i> -nitroso-methyl-ethylamine	71.4	32.6	29.5
<i>m,p</i> -xylenes	0.9	0.5	0.2
styrene	2.0	1.1	0.1
<i>o</i> -xylene	0.8	0.5	0.1
isopropylbenzene	1.3	0.7	0.4
bromoform	55.1	162.5	4.3
<i>cis</i> -1,4-dichloro-2-butene	44.6	238.4	
<i>n</i> -nitrosodiethylamine	24.4	9.6	0.6
1,1,2,2-tetrachloroethane	102.9	664.4	1.5
4-bromofluorobenzene	1.4	1.5	0.2
1,2,3-trichloropropane	3.9	3.7	0.1
<i>n</i> -propylbenzene	1.6	0.9	0.3
<i>trans</i> -1,4-dichloro-2-butene	20.3	37.2	2.6
1,3,5-trimethylbenzene	1.1	0.7	0.2
bromobenzene	1.6	1.6	0.2
2-chlorotoluene	2.1	1.8	0.7
4-chlorotoluene	1.9	1.7	0.3
pentachloroethane			91.5
tert-butylbenzene	1.9	1.0	0.3
1,2,4-trimethylbenzene	1.3	0.6	0.1
<i>sec</i> -butylbenzene	2.3	1.2	0.4

aniline	8.5	14.2	0.3
<i>p</i> -isopropyltoluene	1.8	0.8	0.3
1,3-dichlorobenzene	0.9	1.0	0.3
1,4-dichlorobenzene	1.3	1.2	0.2
<i>n</i> -butylbenzene	1.7	0.9	0.2
1,2-dichlorobenzene	1.5	1.8	0.1
<i>n</i> -nitrosodi- <i>n</i> -propylamine	35.0	20.1	1.8
<i>o</i> -toluidine	61.9	102.5	5.5
1,2-dibromo-3-chloropropane	31.3	41.7	3.6
hexachlorobutadiene	4.3	3.4	1.0
1,2,4-trichlorobenzene	3.5	6.4	0.2
naphthalene	5.2	2.7	0.4
1,2,3-trichlorobenzene	10.3	13.4	0.7
<i>n</i> -nitrosodibutylamine	79.2	15.4	12.2
2-methylnaphthalene	158.7	50.1	2.9

^aMethod detection limits are calculated as 3 times the precision for 21 determinations of analytes at concentrations approximately 3 times their estimated MDLs. The average, deviation, and median are of the individual analytes within the group.

^bMethod detection limits are calculated as 3 times the precision for quadruple determinations of analytes at concentrations approximately 3 times their estimated MDLs. The average, deviation, and median are of the individual analytes within the group.

^cReference standards were prepared using 5 mL water as the matrix.

^dReference standards were prepared using 1 g tuna and 5 mL water as the matrix.